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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/791,607	03/01/2004	Li-Shyue Lai	67,200-1259	2041	
	7590 12/28/2007	EXAMINER			
TUNG & ASSOCIATES Suite 120 838 W. Long Lake Road Bloomfield Hills, MI 48302			, THOMAS, TONIAE M		
			ART UNIT	PAPER NUMBER	
Dicomineta IIII	10002		2822 .		
•				25.07507.7055	
			MAIL DATE	DELIVERY MODE	
	•		12/28/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)					
	10/791,607	LAI ET AL.					
, Office Action Summary	Examiner	Art Unit					
	Toniae M. Thomas	2822					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with t	he correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠ Responsive to communication(s) filed on 20 No.	ovember 2006.						
2a) ☐ This action is FINAL . 2b) ☐ This	<u> </u>						
3) Since this application is in condition for allowar)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>22,24-37 and 40</u> is/are pending in the	application.						
· · · · · · · · · · · · · · · · · · ·	4a) Of the above claim(s) _ is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>22, 24-27, 34-37, 40</u> is/are rejected.							
7) Claim(s) <u>23, 26-33, 35, 38-39</u> is/are objected to							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner	r.						
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by t	he Examiner.					
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is	s objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Of	fice Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 11	9(a)-(d) or (f).					
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the prior							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
Notice of References Cited (PTO-892)	4) Interview Summ						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Ma 5) Notice of Inform	nil Date. <u>20071009</u> . That Patent Application					
Paper No(s)/Mail Date	6) Other:	•••					

	Application No.	Applicant(s)			
Interview Summary	10/791,607	LAI ET AL.			
" danmary	Examiner	Art Unit			
	Toniae M. Thomas	2822			
All participants (applicant, applicant's representative, PTO personnel):					
(1) <u>Toniae M. Thomas</u> .	(3)				
(2) Randy W. Tung (Reg. No. 31,311).	(4)				
Date of Interview: <u>09 October 2007</u> .					
Type: a)⊠ Telephonic b)□ Video Conference c)□ Personal [copy given to: 1)□ applicant 2	²)∏ applicant's representative]			
Exhibit shown or demonstration conducted: d) Yes If Yes, brief description: <u>N/A</u> .	e)⊠ No.				
Claim(s) discussed: <u>26</u> .					
Identification of prior art discussed: <u>N/A</u> .					
Agreement with respect to the claims f) was reached. g)□ was not reached. h)⊠ N	/A.			
Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: <u>the status of claim 26 was not made clear in the previous Office action mailed on 29 June 2007. Accordingly, the examiner has agreed to withdraw the previous action, and send out a new action restarting the period for response. A new action is forthcoming.</u>					
(A fuller description, if necessary, and a copy of the amend allowable, if available, must be attached. Also, where no callowable is available, a summary thereof must be attached	opy of the amendments that w	eed would render the claims ould render the claims			
THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.					
Examiner Note: You must sign this form unless it is an	J. M. J.	himae			
Attachment to a signed Office action.	Examiner's signa	ature, if required			

Application/Control Number: 10/791,607 Page 2

Art Unit: 2822

DETAILED ACTION

1. In the previous Office action mailed on 29 June 2007, the status of the pending claims is unclear. In particular, rejected claims 26, 27, and 35 were indicated as being both rejected and objected to in the Office Action Summary (PTOL-326). Also, in the PTOL-326, canceled claims 23, 38, and 39 were indicated as being objected to. Therefore, to clarify the record, the previous Office action has been withdrawn and replaced with the current non-final action.

2. The indicated allowability of claims 26, 27, and 25 is withdrawn in view of the newly discovered reference to Chen et al. (US 2005/0145984 A1).

Rejections based on the newly cited reference follow.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 22, 24-27, 34-37, and 40 are rejected under 35 U.S.C. 102(e) as being anticipated by Chen et al. (US 2005/0145984 A1 A1).

Art Unit: 2822

The Chen et al. application publication (referred to hereinafter as Chen) discloses a phase change memory structure. The phase change memory structure comprising a substrate comprising a conductive area; and a spacer comprising a phase changing material sensitive to temperature and having a partially exposed sidewall region at the spacer upper portion defining a phase change memory element contact area; wherein the a spacer bottom portion partially overlaps the conductive area (figs. 9a-9c and accompanying text).

Allowable Subject Matter

4. Claims 28-33 are allowable over the prior art of record.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toniae M. Thomas whose telephone number is (571) 272-1846. The examiner can normally be reached on Monday through Friday from 8:30 a.m. to 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zandra Smith can be reached on (571) 272-2429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Toniae M. Thomas
Patent Examiner
Technology Center 2800
Art Unit 2822

TMT 24 December 2007